



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 09-09-19
Lab ID : CP-2020-01-06-18
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division
Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-09-19
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 07-09-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	—
2	Finess by Air permeability method (m ² /kg.Min)	278.4	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	156 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	3mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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[Signature]
R KARTHIK RECHAN

Authorized Signatory
Quality Manager

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****End of Report****



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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-06-18 Date: 05-10-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division

Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 07-09-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.0N/mm ²	Not less than 53 N/mm ²

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality ManagerPage 1/1
****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-06-18 Date: 09-09-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Existing Public Toilets in Ward No:02 of Yelahanka Sub Division
Agency : Sri. B.R.Mohan No:10, 1st B Main, Chikkabommasandra Yelahanka, Bangalore-560064
Customer's Reference : EE(YNK.D)E-PMT-07/W.O/137/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-09-19
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 06-09-19
Total weight taken : 1000 grams

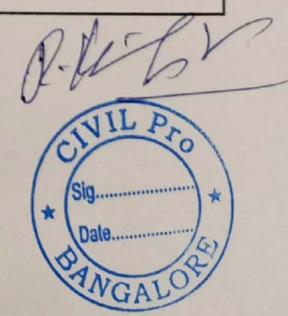
Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	54	83	8.3	91.7	60-95	75-100	85-100	95-100
4	1.18 mm	237	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	212	532	53.2	46.8	15-34	35-59	60-79	80-100
6	300 micron	228	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	173	933	93.3	6.7	0-10	0-10	0-10	0-15
8	Pan	67	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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AE-02



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